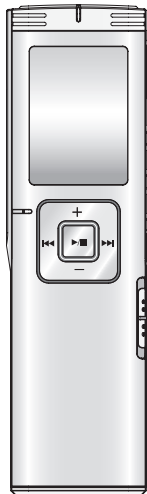


Panasonic®

Operating Instructions IC Recorder

Model No. **RR-US950**
RR-US750



The illustration shows RR-US750.

Dear customer

Thank you for purchasing this product.

For optimum performance and safety, please read these instructions carefully.

Before connecting, operating or adjusting this product, please read the instructions completely. Please keep this manual for future reference.

Enjoy with This Unit

Recording



Meeting

Lesson Lecture

Dictation

Playing back to listen

- Recorded file
- MP3 music file



with speaker



or earphones
(not included)

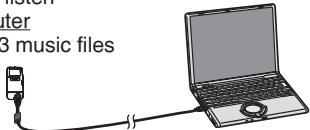
Connecting this unit to a computer

Using a computer

- Charge the battery
- Copy/Organise (Delete) recorded files/
Play back to listen

From a computer

- Transfer MP3 music files



Supplied accessories



Please check and identify the supplied accessories.

Use numbers indicated in parentheses when asking for replacement parts.

(Product numbers correct as of January 2008. These may be subject to change.)

☐ 1 USB cable [K2KZ4CB00012]

☐ 1 AAA-type nickel-metal-hydride rechargeable battery* (Battery case: RXQ0449)

Other rechargeable batteries cannot be charged on this unit.

* Make sure to buy [HHR-4AGE/2B] for Europe or [HHR-4AGT/2B] for Asia and use one of the pair when replacing the rechargeable battery.

Exclusive rechargeable battery



Ordinary rechargeable battery



(For the United Kingdom and Republic of Ireland)
To order accessories, refer to “Sales and Support Information” (→ page 40).

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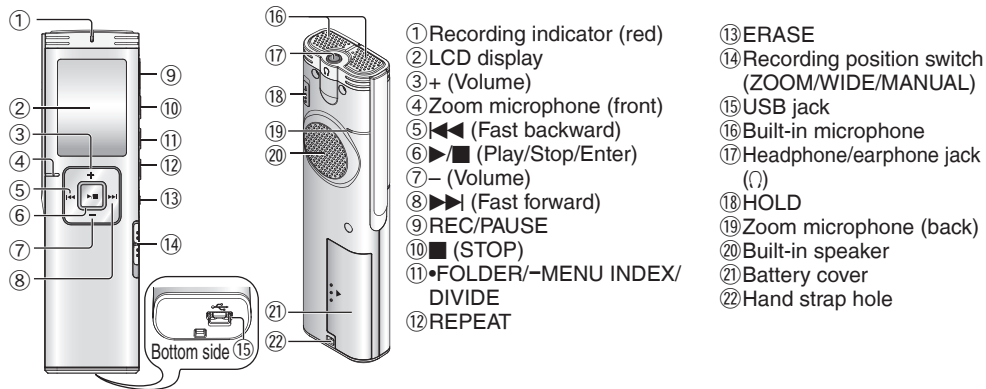
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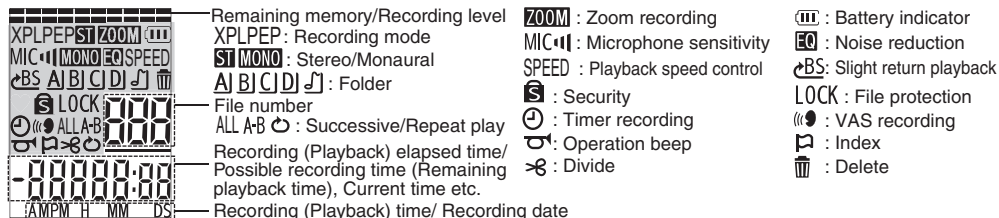
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Part names

Main unit



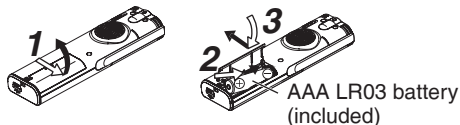
Display



Inserting/Charging the battery

Upon purchasing, charge once before initial use. Charging time: Approx. 2 hours (Time required to become fully-charged from empty condition)


Inserting the rechargeable battery



Make sure the battery faces the right directions.

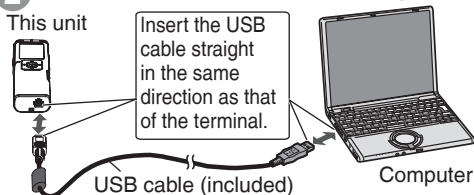
- If rechargeable batteries are to be used, rechargeable batteries manufactured by Panasonic are recommended.

Charging the battery using a computer

- Press  to stop the unit.
- Start the computer beforehand.

1 Insert the USB cable into this unit.

2 Insert the USB cable into the computer.



- Do not use any other USB connection cables except the supplied one.

Display while charging (Rechargeable batteries can be refreshed about 300 times)




While charging		The display changes.
Charging complete		

When the computer recognises this unit, "P.L." is displayed together with above display.

- The rechargeable battery and this unit may be hot while charging. This is not a malfunction.
- Batteries other than exclusive AAA Ni-MH rechargeable battery (→ page 2) cannot be recharged on this unit. **Do not charge batteries that are not designed for this unit.**

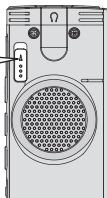
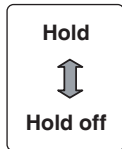
The remaining battery display shown below is displayed while recording or playing.

 →  Blinking

- If the battery runs out, " or " is displayed. Charge the battery as soon as possible.
- The battery does not need to be fully depleted before recharging.
- " may be displayed when connecting this unit to a computer, but the battery can be charged. Refer to the descriptions on page 37.
- Remove the battery from the unit if you will not use it for a long period of time.
- Dry cell batteries (not included) can also be used. Please replace battery within approx. 30 seconds for preservation of the clock data.

Hold function

Before operating, switch Hold off, when finished, switch Hold on.



■ Hold function

This function prevents accidental operation when you put the unit in your pocket or bag. It also prevents battery loss from accidental unit operation.

■ When you set Hold on

Button operations are ignored even if you press buttons by mistake.

- When you set Hold on while recording or playing, “h0 ld” appears and the original display reappears.
- When you set Hold on while the unit is stopped, “h0 ld” appears and then the display and power turn off.

Turning ON/OFF the Power

This unit has no power button.

Turning the power ON

- Press ►/■ or any button, or operate [HOLD] switch while the power is off (the display is off), then the power turns on and the display turns on.

Turning the power OFF

- When you switch Hold on while the unit is stopped, or you do not operate the unit for more than approx. 15 minutes while the unit is stopped, the power automatically turns off.
- After use, we recommend switching Hold on after stopping the unit.

Setting the time

After the battery is inserted, "2008" blinks on the display when the time is not set (e.g. at the time of purchase). (After approx. 1 minute, the display changes to "12:00" (blinking) in Hold off condition.) The clock is used for preserving recording date and setting timer recording. Please set the time first. Recording is possible even if the clock is not set. However, the Recording date, Recording start time is displayed as "- - - -".

When "2008" is blinking

- Switch Hold off (→ page 6).

1 Press +, - to set the year and press ►/■ to enter.

Set month and day in the same way.

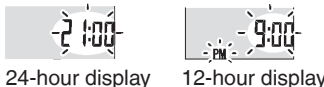


2 Press ◀◀, ▶▶ to select the time display and press ►/■ to enter.






3 Press +, - to set the time and press ►/■ to enter.

You can adjust the time quickly by pressing and holding +, -.



When the time display is "12:00" (blinking) or you change the time

- Switch Hold off (→ page 6).
- Press  to stop the unit.

1. Press and hold  until the menu screen is displayed. "XPLPEP" (blinking) or "2008" (blinking) is displayed.
2. Press +, - to select year display "20**" and press ►/■ to enter. If "2008" blinks, press ►/■ to enter.
3. Follow step 1, 2 and 3 shown at left.
 - Press  to stop the setting process midway.
 - The clock operates with the monthly loss/gain of 60 seconds at normal temperature.
 - The time setting is cleared, if the battery has been consumed completely.



Recording settings

This unit has 4 recording setting items related to recording quality. Using different combinations of recording settings, you can adjust audio quality according to recording situations.

Recording setting item	Setting contents and display
Recording mode (→ page 9)	High-quality : XP Long recording : LP : EP
Switching Stereo/Monaural (→ page 14)	Stereo : ST Monaural : MONO
Microphone sensitivity (→ page 14)	High : MIC ■■■ Normal : MIC ■■ Low : MIC ■
Zoom microphone (→ page 15)	Zoom microphone ON : ZOOM Zoom microphone OFF : No display

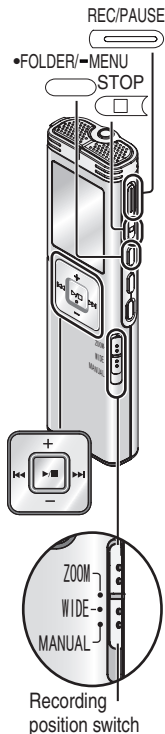
The total possible recording time (→ page 44) changes according to the combination of the recording mode and Stereo/Monaural.

Switching recording position


This unit is equipped with 3 recording positions: [ZOOM], [WIDE] and [MANUAL]. The [ZOOM] and [WIDE] content settings are fixed while [MANUAL] content settings can be changed according to your preference. You can switch among the positions using Recording position switch.

Recording position	Setting contents (display) and situations
ZOOM	XP ZOOM MIC ■ MONO For lesson, lecture, etc. (Recording the aimed person's voice)
WIDE	XP ST MIC ■■ For meeting, etc. (Recording more than one person's voice)
MANUAL	XP ZOOM * MIC ■ MONO For dictation, etc. * The factory setting is suitable for dictation. You can change the setting according to your preference (→ pages 14, 15).

You can change the recording mode (XP, LP, EP) in all positions (→ page 9).



Recording

- Switch Hold off (→ page 6).
- Press  to stop the unit.

1 Slide recording position switch to select a position.

Switch modes according to situations (→ page 8).

2 Select a folder for recording. (→ right)

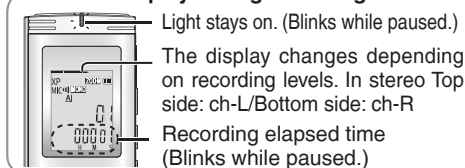
The folder is switched each time you press .

Select among "A|B|C|D|". (The factory setting is "A|".) When you select "J|", recording is automatically saved in "A|". (If the folder already contains 99 files, the next folder with recordable space is used.)

3 Press (Recording starts).

Each time you press  Pause ⇄ Recording resumes

Display during recording



To stop: Press .

- Even if you change the position of Recording position switch during recording, the setting will not be changed until the recording is complete.
- Change the recording mode as necessary (→ right).

Folder

[Folder] for this unit means locations in which recording (music) files are stored.

There are 4 audio folders "A|B|C|D|" and 1 music folder "J|" in this unit.


Using each folder according to the purposes of recording enables you to search files easily later.

A maximum of 99 files can be saved into each audio folder A| to D|.

File


Recorded audio data from the starting point to the ending point is saved as a file. The saved data is called a file.

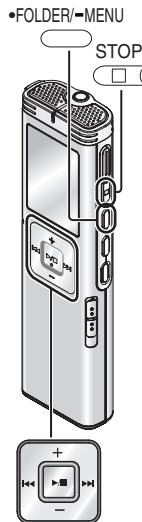
How to set the recording mode (XP/LP/EP)

- Press  to stop the unit.

1. Press and hold  until the menu screen is displayed.
"XPLPEP" (blinking) is displayed.
2. Press  to enter.
3. Press ,  to select among "XP", "LP" and "EP" and press  to enter.

Playing

- Switch Hold off (→ page 6).
- Press  to stop the unit.
- Select a folder (→ right).
- Select a file (→ right).





1 Press (Playback starts).



Adjusting the volume

Turn up the volume: Press +
Turn down the volume: Press -
Volume range is 0 to 20.
(The factory setting is 13.)

Operations during playback

Jump (Skip):

Press  .

Press  midway while playing a file and the playback jumps to the beginning of the file. To return to the previous file, press  again within 1 second.


Fast backward/Fast forward (Search):

Press and hold  .



Stop:

Press  or .

Select a folder

The folder is switched each time you press . Select among "A", "B", "C", "D", "E". Select the folder that contains the file to play.

Select a file

Press   to select.
Each time you press, the file number changes.

File number 

Confirming the remaining time

1. Press and hold  for 1 second or longer during playback.

The remaining time of the file which is being played is displayed.



To return to the original screen, press  again.

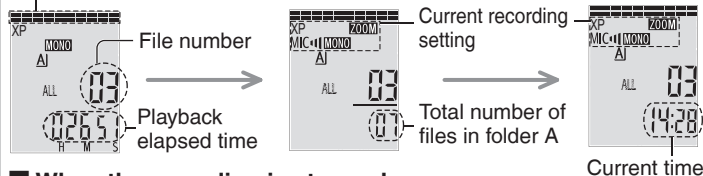
(When you do not press, the screen returns to the original one approx. 30 seconds later.)

Display while stopped

After the unit is stopped, the display is switched as below until the current time is displayed.

■ When the playback is stopped

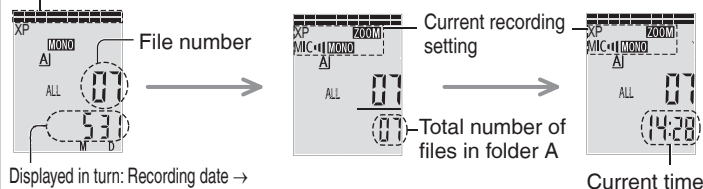
Remaining memory (→ page 17)



■ When the recording is stopped

■ When pressing ◀◀, ▶▶ to select a file while stopped

Remaining memory (→ page 17)



Displayed in turn: Recording date →
Recording start time → Recording time

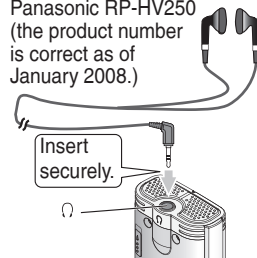
This information makes it easier to search for files.

e.g.) When you have recorded to folder A in ZOOM position with the recording mode XP

Listening to the audio during playback

The audio during playback comes from the speaker. Listening may be difficult in noisy places due to the speaker output. In that case, connect stereo earphones (not included). Plug type: ϕ 3.5 mm stereo mini plug

Recommended additional earphones: Panasonic RP-HV250 (the product number is correct as of January 2008.)



- The built-in speaker is turned off when earphones are connected.

Deleting recorded files

- Select a folder (→ page 10).

1 Press  while playing or the unit is stopped.

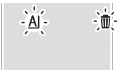


2 Press ,  to select the file.

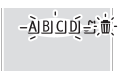
① Deleting one file



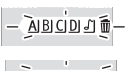
② Deleting all files in one folder



③ Deleting all files in folder A through D



④ Deleting all files in all folders



⑤ Formatting this unit



① to ④ : Protected files and files which cannot be played back on this unit cannot be deleted.

3 Press  to enter.

4 Press ,  to select "YES" and press  to enter.



When deleting is complete, "- -" is displayed.

It may take dozens of seconds until deleting is complete.



Formatting


If the unit is formatted, all existing files including protected files, music files and data files transferred from PCs, etc. are deleted.


- Deleted files cannot be recovered.
- Press  to stop the operation midway.
- The file numbers displayed on this unit are moved forward after deleting files.
- When you wish to delete some portion of a file, divide the file (→ page 21) and delete the unnecessary file.
- You cannot delete files when the remaining battery display is ".




Locking recorded files (File protection)


Locked files cannot be deleted on this unit (except formatting). Use this function to protect files.



- Select a folder (→ page 10).
- Press  to stop the unit.

1 Press and hold  until the menu screen is displayed.
“XPLPEP” (blinking) is displayed.

2 Press +, – and ,  to select “LOCK” and press  to enter.

(Press +, – to move to “S” and press  to select “LOCK”.)



3 Press ,  to select the file.

① Selecting one file



② Selecting all files in one folder

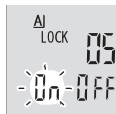


③ Selecting all files in all folders



4 Press  to enter.

5 Press ,  to select “On” and press  to enter.




Lock is performed.

It may take dozens of seconds until locking is complete.


To cancel lock:






Follow step **1** to **4**, select “Off” in step **5** and enter.

-
- Press  to stop the setting process midway.
 - “LOCK” is displayed for the locked files when the file is selected.
 - “LOCK” is not displayed when there is no file in the selected folder.

Changing recording settings (Stereo/Monaural, Microphone sensitivity)

Switching Stereo/Monaural

- Set the Recording position switch to "MANUAL" (→ page 8).
- Press  to stop the unit.

- Press and hold  until the menu screen is displayed. "XPLPEP" (blinking) is displayed.
- Press ,  to select "ST"  and press  to enter.

- Press +, - to select "ST" or "MONO" and press  to enter.



Stereo


(Recording more than one person's voice)






Monaural

(Recording one person's voice)

Changing microphone sensitivity

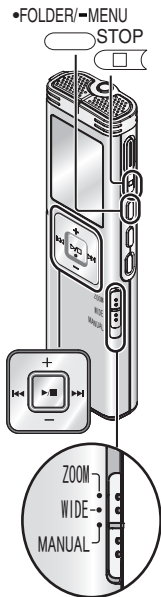
- Set the Recording position switch to "MANUAL" (→ page 8).
- Press  to stop the unit.


- Press and hold  until the menu screen is displayed. "XPLPEP" (blinking) is displayed.
- Press +, - to select "MIC"  and press  to enter.



- Press ,  to select microphone sensitivity and press  to enter.

		
Low	Normal	High



- Press  to stop the setting process midway.
- If "ST" is selected and entered while "ZOOM" is on (→ page 15), "ZOOM" turns off. ("ZOOM" disappears.)

Changing recording settings (Zoom microphone)/Monitoring the recording in progress

Changing Zoom microphone setting

When the zoom is set to “**On**”, the surrounding sound volume is lowered, and the sound in front is clearly recorded.

When recording with zoom microphone, the audio becomes monaural.

• FOLDER/—MENU



- Set the Recording position switch to “MANUAL” (→ page 8).
- Set to “**MONO**” (Monaural) (→ page 14).
- Press to stop the unit.

1 Press and hold until the menu screen is displayed.

“XPLPEP” (blinking) is displayed.

2 Press to select “**ZOOM**” and press to enter.



3 Press to select “**On**” or “**Off**” and press to enter.

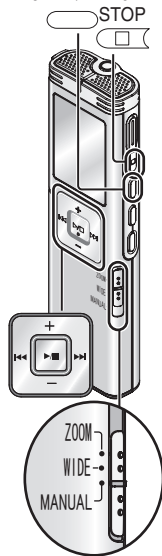
Zoom ON



Zoom OFF



- Press to stop the setting process midway.
- Do not block the holes of the zoom microphone and built-in microphone (→ page 4).
- When “**ST**” is set (→ page 14), you cannot set the zoom microphone and “**ZOOM**” is not displayed on the menu screen.

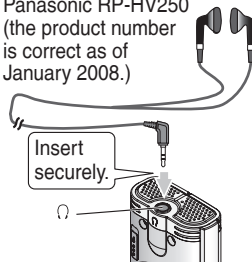


Monitoring the recording in progress

Connect stereo earphones (not included).

Plug type: \varnothing 3.5 mm stereo mini plug

Recommended additional earphones: Panasonic RP-HV250 (the product number is correct as of January 2008.)




■ Adjusting the volume

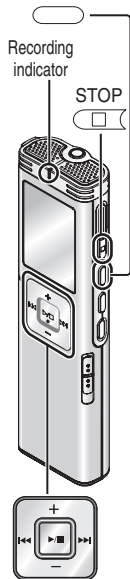
You can adjust the volume by pressing +, −, but the recording level is not affected.


Timer recording

Timer Recording can be set to make one recording at a specified time on this unit. A recording automatically starts at the start time and ends at the finish time.

- Set the time beforehand (→ page 7).
- Select the folder for recording and recording position (→ pages 8, 9).
- Press  to stop the unit.

• FOLDER/-MENU




1 Press and hold  until the menu screen is displayed.
“XPLPEP” (blinking) is displayed.

2 Press +, – to select “” and press  to enter.

3 Press ,  to select “” and press  to enter.



4 Press +, – to select the start time and press  to enter.
Set the finish time in the same way.
(If the recording finish time is not set, you cannot set timer recording.)




ON (Start time)



OFF (Finish time)


“” is displayed after the timer recording is set.

Timer recording is cancelled if the unit is used for playback or another operation 30 seconds before the starting time. After setting the timer, press  to keep the unit stopped or off for standby.



Confirming the timer set:

Perform step **1**, **2** and **3**.

Cancelling Timer recording:

Select “” in step **3** and enter.


.....


- Press  to stop the setting process midway.
- The recording time cannot be set more than 24 hours ahead of the current time.
- Maximum recording time that can be set by Timer recording function is 8 hours. (When only 4 hours of memory remain, maximum recording time is 4 hours.)
- The unit automatically turns on for preparation 30 seconds before the recording start time, then “” and the Recording indicator blink. The unit does not accept key operations for this 30 seconds. At the start time, the recording indicator lights up and timer recording starts.
- You can stop the recording while Timer recording is in progress, but you cannot pause the recording.
- Timer recording setting is cancelled once timer recording is finished.

Preventing unnecessary recording (VAS)/Confirming possible (remaining) recording time

VAS (Voice Activated System) function

Recording stops automatically when silence continues for about 3 seconds. If the unit detects sound, the recording resumes.

- Press  to stop the unit.


1 Press and hold  until the menu screen is displayed.
“XPLPEP” (blinking) is displayed.

2 Press +, - to select “” and press  to enter.



3 Press ,  to select “” and press  to enter.
Then “” is displayed.




When the VAS function is active and the recording is paused during recording, “” and the recording indicator blink.

Cancelling VAS function:

Select “” in step **3** and enter.


- Turn the function off when recording important matters.

- Press  to stop the setting process midway.

Confirming possible (remaining) recording time

While recording


1. Press and hold  for 1 second or longer.

To return to the original display, press and hold  for 1 second or longer again. (If you do not press, the original display reappears in approx. 30 seconds.)

When there is only a little* remaining memory left while recording, the display is automatically changed to the remaining recording time display.




While the unit is stopped


1. Press and hold  for 1 second or longer.

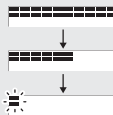
Remaining recording time at the current recording setting is displayed for approx. 3 seconds.



The “” display while stopped shows approximate remaining memory.

“” lights up in response to the remaining time.

When there is only a little* remaining memory left, “” blinks.



* The remaining memory falls below 5% of total capacity of memory (→ page 44).



Setting the Playback speed control function

Playback speed can be adjusted at 5 different speeds.

- 1 Press and hold **FOLDER/-MENU** during playback until **"EQ"** (blinking) and **"SPEED"** (lighting) are displayed.

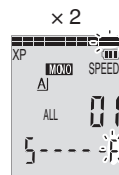
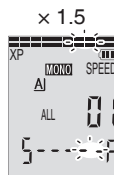
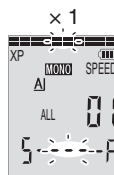
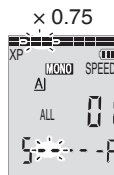
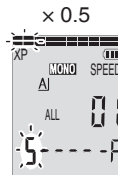
"EQ" is not displayed when "J" is selected.

- 2 Press **▶▶** to select **"SPEED"** and press **▶/■** to enter.



- 3 Press **◀◀**, **▶▶** to select playback speed

When pressing **▶▶**, the playback speed becomes faster and the blinking bar moves to the right.
When pressing **◀◀**, the playback speed becomes slower and the blinking bar moves to the left.



- 4 Press **▶/■** to enter.

- Press **STOP** to stop the setting process midway.
- When you do not operate the unit while setting for more than 30 seconds, the normal display reappears.
- When playing with speed other than × 1 speed, the bar at the top blinks and "SPEED" lights up.

e.g.) When playing back with × 0.75 speed




Reducing noise (EQ setting)/Slight return playback

Reducing noise (EQ setting)

This function makes it easier to hear sounds during playback.

You cannot make this setting when "J" is selected.



1 Press and hold  during playback until "EQ" (blinking) and "SPEED" (lighting) are displayed.

2 Press  to enter.


3 Press ,  to select "On" and press  to enter.


After setting, "EQ" is displayed while playing.



Cancelling Noise reduction (EQ setting):

Select "OFF" in step **3** and enter.


.....
● Press  to stop the setting process midway.


● Even if you press  in rapid succession after the Slight return playback function is set, the playback point reverses about 5 seconds at a time.


● When you do "Slight return playback" at the point within 5 seconds from the beginning of the file, the play point reverses to the beginning of the file.

● You cannot skip to the index point when "Slight return playback" has been set.

Setting Slight return playback

Slight Return Playback function: When  is pressed during playback, the play point reverses about 5 seconds, and playback resumes from the point.

● Press  to stop the unit.

1 Press and hold  until the menu screen is displayed.
"XPLPEP" (blinking) is displayed.

2 Press +, - to select "cBS" and press  to enter.

3 Press ,  to select "On" and press  to enter.
Then "cBS" is displayed.






Cancelling Slight return playback:

Select "OFF" in step **3** and enter.

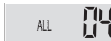
Repeat play/Successive play, A-B Repeat play

Repeat play/Successive play

Each time you press , the playback style is switched as follows.

ALL → ALL  → No display → 

“ALL” display



The selected file until the last file in the selected folder are played successively. The unit stops when the playback finishes. (The factory setting is “ALL”.)

“ALL ” display



Plays all files in the folder repeatedly.

No display




When the playback for one file finishes, the unit stops.

“” display





Plays one file repeatedly.

- Select one of the above settings and, press  to start playback.

A-B Repeat play

Playback repeats between the start point (A) and finish point (B) if those points are set.

- 1 Press  for 1 second or longer while playing.

The start point (A) is set and “A-B” (blinking) and “” (lighting) are displayed.







- 2 Press  at the finish point (B).

The display changes to “A-B” (lighting) and repeat play starts.



Cancelling A-B Repeat:

Press  or  or  while playing or the unit is stopped. (Cancel cannot be done using  while playing last file in the folder.)

- You cannot set A-B Repeat in the following cases.
 - Within 1 second from the beginning of the file and within 2 seconds from the end of the file
 - Less than 2 seconds between the start point (A) and finish point (B)
- When only the start point (A) is set and playback continues until the end of the file, the end becomes the finish point (B) and A-B Repeat begins.
- During A-B Repeat playback, skip to the Index point (→ page 22) and the Slight return playback (→ page 19) are not available.

REPEAT



Dividing files

One file can be divided up to 30 times.

•FOLDER/-MENU



•FOLDER/-MENU

INDEX/DIVIDE

- 1 While playing, press **INDEX/DIVIDE** at the point where you wish to divide the file.

The playback pauses and “” (blinking) and “” (lighting) are displayed. (“” is not displayed when the slight return playback has been set.)



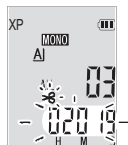
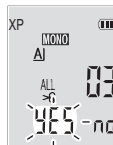
- 2 Press **▶▶** to select “” and press **▶/■** to enter.



- 3 Press **◀◀, ▶▶** to select “” and press **▶/■** to enter.

“” and playback elapsed time at the divided point blink for some time while dividing.

Then, the playback stops at the beginning of the latter half of the divided file.



- Press **STOP** to stop the setting process midway.
- Divided files cannot be recovered.
- Files which were not recorded on this unit cannot be divided. (Music files cannot be divided.)
- The locked file cannot be divided (“” is not displayed). Cancel the lock to divide the locked file (→ page 13).
- If there is only a little remaining memory left, files may not be divided.
- “Recording date”, “Recording start time” and “Recording time” for the divided latter half of the file are automatically determined from the information of the original file. (As for the divided first half of the file, only the recording time is changed.)
- When the battery indicator shows “”, you cannot divide a file.

Index function

The term Index for this unit refers to a mark (point) that is added to a desired stop point when playback is jumped (skipped). When you press **◀◀**, **▶▶** while playing, the playback is skipped to the closest Index point. The maximum number of Indexes is 16 per 1 file.

•FOLDER/-MENU

INDEX/DIVIDE

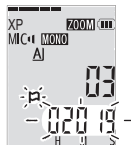
STOP



Adding Index during recording

- 1 Press **INDEX/DIVIDE** at the point where you wish to add the Index.

“P” and the recording elapsed time at that point blink for 2 seconds. The recording continues.




Adding Index while playing

- 1 Press **INDEX/DIVIDE** at the point where you wish to add the Index. The playback pauses and “P” (blinking) and “>8” (lighting) are displayed. (You cannot add indexes while playing when the Slight return playback is set. “P” is not displayed on the screen.) To stop the setting process midway, press **STOP**.
- 2 Press **▶/■** to enter. “P” and the playback elapsed time at that point blink for 2 seconds. After blinking, the playback resumes.





- You cannot add the Index within 3 seconds from the beginning of the file.
- The Index cannot be added when the interval of Index points is less than 2 seconds.
- “P” is displayed for the file to which Indexes are added.
- When the battery indicator shows “”, you cannot add the Index.

Cancelling the Index

- Select a file or folder which has Index to be cancelled (→ page 10).
- Press  to stop the unit.

1 Press and hold  until the menu screen is displayed.

“XPLPEP” (blinking) is displayed.

2 Press +, – to select “” and press  to enter.

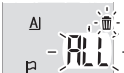


3 Press ,  to select the file.

① Cancelling Indexes in one file



② Cancelling Indexes in all files in one folder



③ Cancelling Indexes in all files in all folders





4 Press  to enter.

5 Press ,  to select “YES” and press  to enter.

“--- --” is displayed when cancelling Index is complete. It may take dozens of seconds until cancelling is complete.




-
- Press  to stop the setting process midway.
 - If you divide or delete the files which have Indexes, those Indexes are cancelled.
 - If files with Indexes do not exist in the selected folder, “” is not displayed on the menu screen.



Security functions

If you set a password, password authentication is necessary when playing back this unit or connecting to a computer. When the unit is lost or stolen, the recorded data stored in this unit cannot be played or the computer does not recognise this unit as long as the password does not match.

If you forget the password, you cannot play files in folder A to D. Please write it down in MEMO section (→ right) not to forget.

Setting the password (4-digit number)



- Press  to stop the unit.

- Press and hold  until the menu screen is displayed. "XPLPEP" (blinking) is displayed.
- Press +, - to select "S" and press  to enter.

- Press ,  to select "0n" and press  to enter.
Enters the password entry display.




- Press +, - to select a number and press  to enter.

Move to the next digit and select a number. Repeat this until the 4th digit. (You can select a digit with , .) The password is determined when you finish entering the 4th digit. Then "S" is displayed.


MEMO

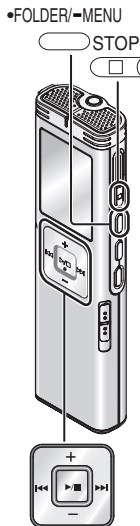
Password

If the password has been set and you press  to play a file, the password entry display appears (→ page 25).

Cancelling the security lock:

- Select "OFF" in step 3 and enter.
- Perform step 4. (Enter the password.)

- Press  to stop the setting process midway.
- To change the password, cancel the security lock and set a password again from step 1.



Authenticating the password

Perform step ④ in page 24.
(Enter the password.)



■ When the password matches

- The security lock is temporarily released and the audio file can be played. ("S" blinks while temporarily cancelling.)
- In the cases below, the security lock is set again.
 - When you do not operate for more than approx. 15 minutes and the power turns off while the unit is stopped (→ page 6)
 - When you switch HOLD on during no operation and do not switch HOLD off for more than approx. 15 minutes (→ page 6)

■ When the password is wrong

- The unit beeps and "PAS Err" is displayed, then the password entry display reappears. When wrong passwords are entered 5 times in succession, the unit stops accepting password entry. (Entering password is prohibited.) In that case, reenter the password in the following condition.
 - When you do not operate for more than approx. 15 minutes and the power turns off while the unit is stopped (→ page 6)
 - When you switch HOLD on during no operation and do not switch HOLD off for more than approx. 15 minutes (→ page 6)

■ When you have forgotten the password

To initialise the password, delete all files. (If password entry is prohibited, initialise the password after password entry becomes possible.)

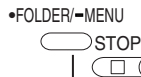
- ① Release all locks set on files in folder A through D (→ page 13).
- ② Delete all files in folder A through D (→ page 12).
- ③ Select "FF" in step ③ of "Setting the password (4-digit number)" and press ►/■ to enter (→ page 24).

-
- If this unit is connected to a computer when the security lock is not cancelled, the computer does not recognise this unit.
After connecting the USB cable, the password entry display appears. Then, authenticate the password.
 - Even if the security lock is not cancelled, recording and playing music are available.

This security function is only to limit a playback function for files by password, not by encryption. We do not guarantee any kind of loss in case your password gets broken up.

Cancelling the operation beep

- 1 Press and hold **FOLDER/-MENU** until the menu "XPLPEP" (blinking) is displayed.



- 2 Press **+**, **-** to select "OFF" and press **▶/■** to enter.



- 3 Press **◀◀**, **▶▶** to select "OFF" and press **▶/■** to enter.



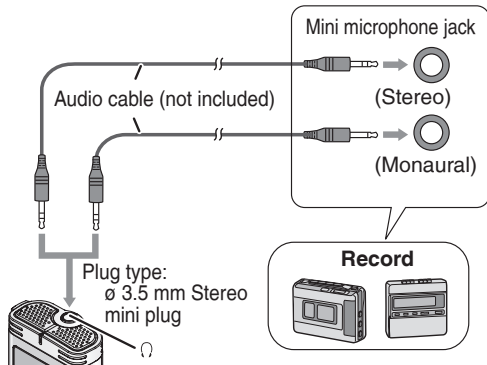
Setting the operation beep ON:

Select "On" in step 3 and enter.

- Press **STOP** to stop the setting process midway.

Recording to other devices

- Cancel the operation beep while copying (→ left).




- 1 On this unit, play the file you want to copy (→ pages 10, 11).
- 2 Record using recording equipment.

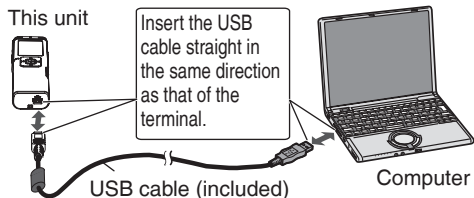
- Read the operating instructions for recording equipment.
- The recorded sound quality may differ from the sound quality of this unit.
- Adjust the recording volume on this unit to the desired level.

Connecting this unit to a computer

You can copy files recorded on this unit to the computer or charge the battery.

- Start the computer beforehand.
- Press  to stop the unit.

1. Insert the USB cable into this unit.
2. Insert the USB cable into the computer.



- Do not use any other USB connection cables except the supplied one.
- "PL" is displayed on the unit's screen when the computer recognises this unit.

Use the supplied USB cable.
Do not use the supplied cable to other devices.



Caution: Use only the included USB cable with a ferrite core when connecting to computer.

When the computer does not recognise this unit
If "PFC" is displayed, enter the password (→ page 25).

If "USB--n" is displayed, disconnect this unit from the computer once after charging the battery is complete, and reconnect the unit to the computer.

- Even if you connect this unit to the computer without the battery or with the depleted battery, the computer cannot recognise this unit (→ page 37).

■ Removing the USB cable

Double-click the icon (Windows 2000/Windows XP: , Windows Vista: ) on the task tray at the bottom of the computer screen and follow the on-screen instructions to remove the USB cable. (The icon may not be displayed depending on the OS settings.)

After the cable is removed, this unit turns off.

■ USB mass storage function

This unit functions as a USB memory and is recognised as a computer's external storage device. Data files in the computer can be transferred and saved in this unit.

■ System requirements (OS)

Windows 2000 (SP4), Windows XP, Windows Vista (As of January 2008)

- Please see page 34 for details of system requirements.
- Please see the Operating Instructions for the computer.

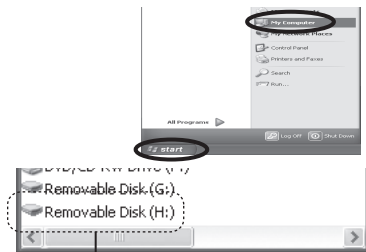
Opening the folder of this unit using a computer

The illustrations show Windows XP (OS). The display may differ depending on the OS.

- Connect this unit to a Computer beforehand (→ page 27).

1. Click [Start] → [My Computer].

This unit is displayed as a removable disk.



A removable disk is an external storage device (SD memory card, USB memory etc.) connected to the computer.

It is displayed when opening [My Computer].

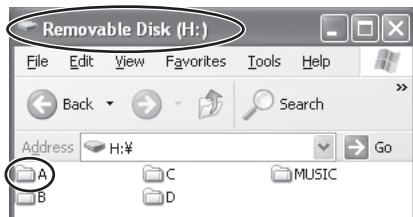
The components of the computer and the external storage device illustrated here is an example.

The display may differ depending on the computer you are using.

“H” indicated in Removable Disk (H:) is not a fixed character.

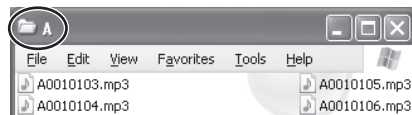
2. Right-click to open the removable disk (this unit).

The folders (A to D, MUSIC) in this unit appear.
(They are displayed as A B C D ♪ on this unit's screen.)



3. Right-click to open the folder.

Recorded files in this unit appear.



Importing the recorded files in this unit to a computer/Organising files

- Open the removable disk (this unit) displayed on the computer screen and open the audio folder (A to D) beforehand (→ page 28).

Importing recorded files to a computer

1. Select the recorded file in this unit, right-click and select [Copy].
2. Select a folder in the computer, right-click and select [Paste] to import to the computer.

Folder in this unit



Folder in the computer



Playing recorded files on the computer:

Select the recorded file in this unit, right-click and select [Play].

Delete unnecessary files using the computer:

Select the recorded file in this unit, right-click, select [Delete] and [Yes] to enter.

Do not change the folder names

If you change the names of folders (A, B, C, D, MUSIC) of this unit, new A, B, C, D and MUSIC folders are generated when this unit is disconnected from the computer. The files in the folders with changed names cannot be played on this unit.

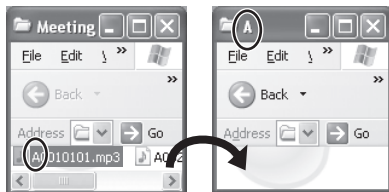
- Using [drag and drop], you can import the files to the computer as well.
- If the file is deleted, file numbers displayed on this unit are moved forward.
- “P” (blinking) is displayed during the data transmission. **Never remove the USB cable** while “P” is blinking. File data or this unit may be destroyed, or all the data in this unit may be lost.
- When this unit is removed from the computer or the power is turned on afterwards, “ACCESS” is displayed for a moment while updating the file data.
- Do not format this unit using a computer.
- When the file with Indexes is imported to a computer, those Indexes are cancelled.

Returning the files imported to the computer to this unit

- Open the audio folder (A to D) of this unit beforehand (→ page 28).

Returning recorded files to this unit from the computer

1. Select the recorded file imported to the computer (→ page 29), right-click and select [Copy].
2. Select the original folder in this unit, right-click and select [Paste] to return the recorded file.



Reload the files to the original folder which files were imported from. When you reload the files to other folders, those files cannot be played on this unit. (Confirm the first character (A to D) of the file name matches the folder name (A to D).)

Do not change the file names

If you change file names, those files cannot be played on this unit. Return the file name to the original one or move the file to MUSIC folder.

- MP3 music files which were not recorded on this unit can be played only in MUSIC folder.
- If the file is returned to folder A to D, it cannot be played on this unit. (The file number is not displayed on the screen of this unit.)
- Up to 99 files in folder A to D respectively can be played on this unit. Files over 99 cannot be played on this unit.
- If you create folders in folder A to D, and put recorded files in the new folder, those files cannot be played on this unit.
- The files that are returned to this unit are played back in the order the files are received. For example, even if the file is recorded first, the playback order becomes 5th if the file is reloaded from the computer at 5th.

File naming rules (for recorded files on this unit)

The file name consists of [Folder name (1 byte, 1 character (A to D)) + File number (1 byte, 3 characters + Recording date (1 byte, 4 numbers)].
e.g.) if the file is recorded as the first file in folder A on July 20, the name is "A0010720.mp3". The second file on the same day is named as "A0020720.mp3".
If the file is divided (→ page 21), "A" or "B" will be added at the end of the recording date.

Listening to the music on this unit (Transferring MP3 music files to this unit)

You can enjoy music by transferring MP3 music files stored in the computer to this unit.

Transferring MP3 music files to this unit from the computer

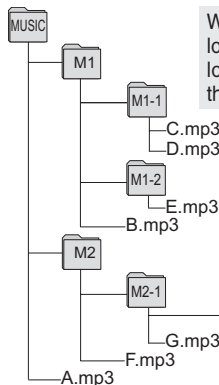
- Open MUSIC folder (📁) of this unit beforehand (→ page 28).

1. Select an MP3 music file or folder which has MP3 music files in the computer, right-click and select [Copy].
2. Select MUSIC folder of this unit, right-click and select [Paste] to transfer to this unit.

- The files in the folder that was created into the MUSIC folder are playable. However, note that playable folders are the ones on the 1st hierarchy and 2nd hierarchy only. Folders on the 3rd hierarchy and after are not playable.
- The audio files and folders that are loaded to this unit are played back in the order the files and folders are received. But in case of the structure at right, files in M2 are played after all files in M1 are played since the loaded order of 1st hierarchy takes priority. Even if M1-2 is loaded after M2-1, the files in M1-2 are played first.
- Files just under the folder are played first; e.g., even if A.mp3 was loaded last, A.mp3 is played first.
- In the case of the structure shown at right, the order of successive playback on this unit is
A.mp3 → B.mp3 → C.mp3 → D.mp3 → E.mp3 → F.mp3 → G.mp3.

Folder/file structure in MUSIC folder (example)

This is an example when M1 was loaded before M2 for M1 and M2, M1-1 was loaded before M1-2 for M1-1 and M1-2, C.mp3 was loaded before D.mp3 for C.mp3 and D.mp3.




When two or more files are loaded at a time, those are loaded in order decided by the computer.

This is not playable because this is on the 3rd hierarchy.

(M1, etc. represent a folder and A.mp3, etc. represent a file.)

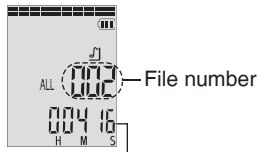
- "🔌" (blinking) is displayed during data transmission. **Never remove the USB cable while "🔌" is blinking.** File data or this unit may be destroyed.

Listening to the music on this unit (Playing MP3 music files on this unit)

- Remove the USB cable (→ page 27).
- Press  to stop the unit.

1 Press  to select “” (MUSIC folder).

2 Press ,  to select the file you want to listen.




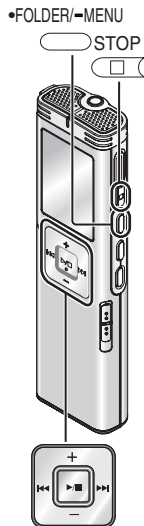
After selection, the length of the music and the total number of files in MUSIC folder are displayed.

3 Press  (Playback starts).

Stop:

Press  or .

- See pages 10 and 11 for playback operations.
- In “” folder, you can play maximum of 999 files. Files over 999 cannot be played on this unit.
- The file name or folder name cannot be displayed. Successive numbers, starting from “001” (file number) are displayed according to the order of playback.
- Files other than files with MP3 format, such as WMA, AAC format files cannot be played. (The number is not displayed on screen.)
- Copyright-protected MP3 music files cannot be played.
- MP3 music files with variable bit rate are playable, but the playback elapsed time display may differ from the actual time.



Creating MP3 music files

This unit is not equipped with the function or computer software to create MP3 file from music CD. You can create MP3 music files using separately sold computer software, etc.

Windows XP or Windows Vista users can create MP3 music files using Windows Media Player 11.

Following is the example of operating instructions when using Windows XP and Windows Media Player 11. See [Help] section of Windows Media Player for more details. (The display and operations may differ depending on the OS.)

- Start the computer beforehand.

1. Select [Start] - [All Programs] and start [Windows Media Player] on the computer.
2. Select [Rip] → [Format] → [mp3].
3. Select [Rip] → [Bit Rate] and select among [128kbps] (Smallest Size), [192kbps], [256kbps] and [320kbps] (Best Quality).
If you select low Bit Rate for ripping, more songs will be ripped.
4. Select [Rip] → [Rip CD Automatically When Inserted] and select [Never].
5. Set music CD into the computer.
6. In “☐” for the album, add the check mark as “☒”.
If there are songs you do not want to rip, remove the check mark for “☒”.
7. Click [Start Rip] to begin ripping.

Music files ripped (encoded) into the computer using Windows Media Player are saved in [My Music] folder of [My Document] if the destination to save has not been changed.

- Windows Media Player 9 and older versions cannot create MP3 music file.
- Please see the homepage of the Microsoft company for details of download/update of Windows Media Player etc.
<http://www.microsoft.com/windows/windowsmedia/player/11/default.aspx>
- If you cannot create MP3 music files successfully or do not know how to operate the computer, please consult the computer manufacturer.
- See page 31 for transferring MP3 music file to this unit and page 32 for playback.

System requirements

Computer	IBM PC/AT compatible machines
OS	<ul style="list-style-type: none">• Windows® 2000 Professional SP4• Windows® XP Home Edition/Professional and SP1, SP2• Windows Vista® Home Basic/Home Premium/Business/Ultimate
Interface	USB port (Operation cannot be guaranteed if you use a USB hub or extension cable.)

- * Even if the system requirements mentioned in these operating instructions are fulfilled, some personal computers can not be used.
- * Operation is not guaranteed on Windows environments other than OS specified above.
- * Operation is not guaranteed on an upgraded OS.
- * Not compatible with multi-boot environments.
- * Operation is not guaranteed on home-made computers.
- * Operation is not guaranteed on 64-bit computers.
- * When using Windows Media™ Player, your computer must fulfill the system requirements of Windows Media™ Player. Please consult Microsoft Corporation for details of Windows Media™ Player.
- * Microsoft, Windows, Windows Media and Windows Vista are registered trademarks or trademarks of Microsoft Corporation of the U.S. and other countries.
- * MPEG Layer-3 audio coding technology licensed from Fraunhofer IIS and Thomson multimedia.
- * IBM and PC/AT are registered trademarks of International Business Machines Corporation of the U.S.
- * Other system names and product names appearing in this document are in general the registered trademarks or trademarks of the respective developer companies. Note that the ™ mark and ® mark do not appear in this document.
- * Depending on the computer environment, malfunctions may occur (e.g. Audio data recorded on this unit cannot be used, etc.). Panasonic and Panasonic dealers cannot be held liable for any lost audio data or other direct or indirect damage except in cases of intentional or gross negligence.

Q & A (Frequently Asked Questions)

Question	Answer
Can I play audio files in other IC recorders (RR-US500, RR-US470, etc.) made by Panasonic on this unit?	<ul style="list-style-type: none">• Cannot play because the file format is different.
Can I use audio editing software (Voice Editing) included in other Panasonic IC Recorder?	<ul style="list-style-type: none">• The Voice Editing cannot be used for this product because the recording format differs from the format used for other Panasonic IC recorders. The recording format used for this product is MP3 format. This product is not compatible with the voice editing software (Voice Editing) supplied with Panasonic IC recorders using ADPCM and TRC format.
Can I record from a cassette recorder or telephone?	<ul style="list-style-type: none">• No, you cannot. (The external microphone input terminal is not equipped.)
Can I secure any folder in this unit?	<ul style="list-style-type: none">• Only folder A through D can be secured. MUSIC folder cannot be secured.• If the security lock is set when connected to a computer, the password authentication is necessary for the computer to recognise this unit.
What kind of battery charger other than a computer can be used?	<ul style="list-style-type: none">• You cannot charge the battery using devices other than the USB terminal of the computer.
What kind of files can be played?	<ul style="list-style-type: none">• Only MP3 file can be played. WMA, AAC and other files cannot be played.
What kind of computers can be connected with this unit?	<ul style="list-style-type: none">• Windows 2000 (SP4), Windows XP, Windows Vista only. Please refer to "System requirements" (→ page 34).

Troubleshooting guide

Before requesting service, make the following checks. If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Symptom	Checkpoints
Battery	
Cannot recharge the battery.	<ul style="list-style-type: none">• Recharging may take dozens of seconds to start when you use rechargeable batteries that had not been used for a long period.• Are you using specified rechargeable batteries? Recharging batteries that are out of specifications is impossible on this unit (→ page 2).
Playback does not last long despite recharging.	<ul style="list-style-type: none">• When playback using recharged batteries ends extremely fast, it means battery life is over. (Roughly speaking, rechargeable batteries can be refreshed about 300 times.)
Cannot use a battery that can be still used on other equipment.	<ul style="list-style-type: none">• This unit considers the battery as empty even if there is actually power left in it. This is to preserve the clock setting.
Operations	
No operation.	<ul style="list-style-type: none">• Make sure the battery is correctly inserted.• You cannot operate on this unit when the unit is connected to a computer.
Cannot operate when “hold” appears.	<ul style="list-style-type: none">• The Hold function is on. Switch Hold off (→ page 6).
Display	
“0000”, “12:00” blinks.	<ul style="list-style-type: none">• Please set the time (→ page 7).
“FULL” appears.	<ul style="list-style-type: none">• There are 99 files in folder A, B, C, D.• There is no remaining memory (→ page 44). Delete unnecessary recording files, files and data other than MP3 files (→ pages 12, 29).
“00” appears.	<ul style="list-style-type: none">• The battery has run out. Charge the battery (→ page 5).

Symptom	Checkpoints
Display	
"USB -- nU" appears.	<ul style="list-style-type: none"> • If the battery is depleted to the very low level and the display does not appear, "USB -- nU" is displayed even if the unit is connected to the computer and the computer does not recognise this unit. When using the rechargeable battery (→ page 2), continue charging. After charging is complete, disconnect this unit from the computer once and reconnect it. • When using a dry-cell battery, replace it with a new battery. • If the battery has not been set, insert the battery (→ page 5).
"ZOOM" is not displayed on menu screen.	<ul style="list-style-type: none"> • "SI" has been set. When set to "MONO", "ZOOM" is displayed on menu screen (→ page 15).
"EF" appears. RECESS	<ul style="list-style-type: none"> • This appears when updating data in this unit (e.g. after disconnecting this unit from the computer, when turning the power on, etc.)
Record	
The memory is used completely earlier than expected. ("FULL" is displayed earlier than expected.)	<ul style="list-style-type: none"> • Available recording time differs approx. 8 times, comparing Stereo/XP mode with Monaural/EP mode (→ page 44). You can record longer if recording in Monaural/EP mode (→ pages 9, 14). • If you lower the Bit Rate for ripping music CDs, more songs will be saved (→ page 33). • Is much data other than MP3 stored? Delete unnecessary data.
Recording stops halfway.	<ul style="list-style-type: none"> • VAS is functioning (→ page 17).
Howling occurs when listening to the recording in progress with earphones.	<ul style="list-style-type: none"> • Turn down the volume (→ page 10). • Keep earphones and this unit separate.
Recording ended halfway.	<ul style="list-style-type: none"> • The data may not be updated if the unit receives a shock (e.g. it is dropped), or the battery goes out during recording.
"-- --" appears instead of the recording date.	<ul style="list-style-type: none"> • Set the time (→ page 7).

Troubleshooting guide

Symptom	Checkpoints
Record	
The playback time is longer than the recording time.	<ul style="list-style-type: none"> Depending on the combination of recording settings (→ page 8), the playback time may be approx. 1 or 2 seconds longer than the recording time.
Cannot set timer recording.	<ul style="list-style-type: none"> The timer covers 24 hours from the present time only. Recording periods that are 8 hours or longer cannot be set using the timer. Set the time before setting the timer recording (→ page 7). Timer recording periods of less than 1 minute are unavailable.
Timer recording does not work.	<ul style="list-style-type: none"> The settings are cancelled if the battery is removed and the clock settings are cleared. Timer recording does not work if the unit is used for playback or another operation at a set time. Timer recording setting is cancelled once timer recording is performed. Set the timer again when necessary.
Files created through timer recording are shorter than periods set with the timer.	<ul style="list-style-type: none"> VAS may be “\overline{U}_n” (→ page 17).
Playing	
Cannot play the recorded file though it was recorded on this unit.	<ul style="list-style-type: none"> The file name was changed. Only files named according to the file naming rules (→ page 30) can be played in folder A through D.
Playback speed is too fast or slow.	<ul style="list-style-type: none"> You changed the playback speed (→ page 18).
The order of playing changed after reloading files that were once imported to the computer to this unit.	<ul style="list-style-type: none"> This occurs because files imported from the computer are placed at the end in the folder.

Symptom	Checkpoints
Playing	
There is no sound from the earphones or it is difficult to hear or noisy.	<ul style="list-style-type: none"> • Ensure the plug is inserted firmly. • Wipe the plug clean.
Sound is distorted.	<ul style="list-style-type: none"> • Please lower the microphone sensitivity (→ page 14) or keep the distance from the recording sound source.
No sound from the speaker.	<ul style="list-style-type: none"> • There is no sound when you have connected earphones.
I hear noises.	<ul style="list-style-type: none"> • Move a mobile telephone away from this unit when you use the two in the same area.
Recorded sounds contain noise that makes it difficult to hear sounds.	<ul style="list-style-type: none"> • Reduce noise (→ page 19). Noise is reduced and listening may become easier.
Others	
The power cannot be turned on.	<ul style="list-style-type: none"> • The battery may have run out. When you use a rechargeable battery, charge battery (→ page 5). When you use a dry-cell battery, replace the battery with a new one.
The power automatically turns off.	<ul style="list-style-type: none"> • When you do not operate for more than approx. 15 minutes, the power automatically turns off. When any button is pressed or [HOLD] switch is operated, the power turns on (→ page 6).
Cannot delete a file or folder.	<ul style="list-style-type: none"> • The file is protected (→ page 13). • The folder is already empty.
This unit is not recognised by a computer.	<ul style="list-style-type: none"> • The OS on the computer may not be compliant with this unit (→ page 34). • The password has been set (→ page 25). • Is a battery in this unit? If it is not, insert a battery. • When the voltage of the battery is too low, “U5b-- nU” is displayed and the computer cannot recognise this unit (→ page 37).

Sales and Support Information

(For the United Kingdom and Republic of Ireland)

Customer Care Centre

- For customers within the UK: 0844 844 3852
- For customers within the Republic of Ireland: 01 289 8333
- Visit our website for product information
- E-mail: customer.care@panasonic.co.uk

Direct Sales at Panasonic UK

- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Care Centre Monday-Thursday 9:00am-5:30pm, Friday 9:30am-5:30pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.panasonic.co.uk.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK Ltd.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products, take a browse on our website for further details.

Interested in purchasing an extended guarantee?

Please call 0870 240 6284 or visit our website www.panasonic.co.uk/guarantee.

-If you see this symbol-

Information on Disposal for Users of Waste Electrical & Electronic Equipment (private households)



This symbol on the products and/or accompanying documents means that used electrical and electronic products should not be mixed with general household waste. For proper treatment, recovery and recycling, please take these products to designated collection points, where they will be accepted on a free of charge basis. Alternatively, in some countries you may be able to return your products to your local retailer upon the purchase of an equivalent new product.

Disposing of this product correctly will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling. Please contact your local authority for further details of your nearest designated collection point.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

Information on Disposal in other Countries outside the European Union

This symbol is only valid in the European Union.

If you wish to discard this product, please contact your local authorities or dealer and ask for the correct method of disposal.

Care and use

To reduce risk of radio interference caused by headphone- or earphone-cables, only use adequate accessories with the cable length less than 3 m.

■ Unit

- Do not heat or expose to flame.
- Do not leave the battery in an automobile exposed to direct sunlight for a long period of time with doors and windows closed.
- To avoid product damage, do not expose this product to rain, water or other liquids.
- The unit's speaker does not have magnetic shielding. Do not place the unit near televisions, personal computers, magnetized cards (bank cards, commuter passes) or other devices easily influenced by a magnet.

■ Batteries

- Do not peel off the covering on batteries and do not use the batteries if the covering has been peeled off.
- Align the poles \oplus and \ominus correctly when inserting the batteries.
- Remove the batteries if you do not intend to use the unit for a long time.
- Do not attempt to recharge dry cell batteries.
- Battery mishandling can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire. If electrolyte leaks from the batteries, consult your dealer. Wash thoroughly with water if electrolyte comes in contact with any part of your body.
- Keep the AAA battery out of reach of children to prevent swallowing. Accidental swallowing of batteries can result in stomach and intestinal damage.
- When carrying batteries in a pocket or bag, ensure no metal objects such as necklaces are placed together with them. Contact with metal may cause short-circuiting which can cause a fire. For safety, carry the rechargeable batteries in the battery carrying case.

■ Precautions for listening with the Headphones or Earphones

- Do not play your headphones or earphones at a high volume. Hearing experts advise against continuous extended play.
- If you experience a ringing in your ears, reduce volume or discontinue use.
- Do not use while operating a motorized vehicle. It may create a traffic hazard and is illegal in many areas.
- You should use extreme caution or temporarily discontinue use in potentially hazardous situations.
- Even if your headphones or earphones are the open-air type designed to let you hear outside sounds, don't turn up the volume so high that you can't hear what's around you.

■ Allergies

- Discontinue use if you experience discomfort with the earphones or any other parts that directly contact your skin.
- Continued use may cause rashes or other allergic reactions.

Notice about the rechargeable battery

The battery is designated recyclable.

Please follow your local recycling regulations.

SUOMI

Ladattavaa akkua koskeva huomautus

Akku on määritetty kierrätettäväksi.

Noudata paikallisia kierrätysmääräyksiä.

NORSK

Om det oppladbare batteriet

Batteriet er spesifisert som resirkulerbart.

Vennligst følg de lokale bestemmelsene for resirkulering.

Maintenance

Clean this unit with a dry and soft cloth.

- If the unit becomes too dirty, wring a cloth moistened in water, wipe the dirt with it and clean with a dry cloth.
- Do not use solvents including benzene, thinner, alcohol, kitchen detergent, a chemical wiper, etc. This might cause the exterior case to be deformed or the coating to come off.

Specifications

Power

Rechargeable Battery	DC 1.2 V Ni-MH: 1 piece
Battery	DC 1.5 V AAA LR03: 1 piece
Recharging spec.	Only USB Recharge, Recharging time : Approx. 2 hours

Audio

Sampling Frequency (Stereo/Monaural)	XP: 44.1 kHz/44.1 kHz LP: 22.05 kHz/16 kHz EP: 11.025 kHz/8 kHz
Recording Format	MP3
Playable Bit Rate (MUSIC folder)	8 kbps to 320 kbps
Playable Sampling Frequency (MUSIC folder)	8 kHz to 48 kHz
Frequency Response (-10 dB Rec-Play, Monaural)	XP: 180 Hz to 15,000 Hz LP: 180 Hz to 6,200 Hz EP: 180 Hz to 3,400 Hz
Built-in Microphone S/N Ratio	40.5 dB (XP) Filter (JIS A)

Jack

USB	USB2.0 (Hi-Speed)
Audio	Earphone ø 3.5 mm jack, 16 Ω, Max. 3 mW
Output	Speaker output ø 20 mm, 8 Ω, Max. 50 mW

Built-in Memory	RR-US950	RR-US750
	2 GB*1	1 GB*1

Operating Temperature	0°C to 40°C
Operating Humidity	20% to 80% (non-condensing)
Rechargeable Temperature	5°C to 35°C

*1 Usable capacity will be less.

Battery life (may be less depending on the operating conditions.)

Battery (AAA LR03)	Recording mode		Rec*3	Play*4
Alkaline battery*2/ Rechargeable battery	Stereo	XP	approx.15/10 h.	approx.13/9 h.
		LP	approx.18/12 h.	approx.13/9 h.
		EP	approx.20/13 h.	approx.13/9 h.
	Monaural	XP	approx.23/16 h.	approx.13/9 h.
		LP	approx.28/19 h.	approx.13/9 h.
		EP	approx.30/20 h.	approx.13/9 h.

*2 Using recommended Panasonic Alkaline battery.

*3 When zoom microphone is off.

*4 When audio is output from speaker (Volume: 13, EQ: off, playback speed control: × 1)

Standard recordable time

	Recording mode	RR-US950	RR-US750	Bit rate
Stereo	XP	36h.10min.	18h.	128kbps
	LP	72h.30min.	36h.10min.	64kbps
	EP	145h.10min.	72h.30min.	32kbps
Monaural	XP	72h.30min.	36h.10min.	64kbps
	LP	145h.10min.	72h.30min.	32kbps
	EP	290h.20min.	145h.	16kbps

Max. Dimensions (W × H × D)

33.6 mm × 115.0 mm × 17.6 mm

Cabinet dimensions (W × H × D)

33.1 mm × 115.0 mm × 14.7 mm

Mass

Approx. 56.0 g with battery

Approx. 44.0 g without battery

● Specifications are subject to change without notice.

This product may receive radio interference caused by mobile telephones during use. If such interference is apparent, please increase separation between the product and the mobile telephone.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Excessive sound pressure from earphones and headphones can cause hearing loss.

Product Identification Marking is located on the bottom of unit.

MEMO

Panasonic Warranty

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or its Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or its territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, buildup of dirt or dust, abuse, misadjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
 - (a) Video or Audio Tapes
 - (b) Video or Audio Heads and Stylus resulting from wear and tear in normal use
 - (c) Shaver Heads or Cutters
 - (d) Cabinet Parts
 - (e) User replaceable Batteries
 - (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridges, Printer Heads
 - (g) Microwave Oven cook plates.
 - (h) Kneader mounting shaft unit (bread bakery)
5. If warranty service is required you should:
 - Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
 - Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
 - Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
 - (a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)
 - (b) Convection/Combination Microwave Ovens
 - (c) Whiteboard (except portable type)
6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freight, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the *Trade Practices Act 1974* and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.

November 2005

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the **Panasonic Australia website**

www.panasonic.com.au or by phone on 132 600

If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited

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Matsushita Electric Industrial Co., Ltd.

Web Site: <http://panasonic.net>

Pursuant to at the directive 2004/108/EC, article 9 (2)

Panasonic Testing Centre

Panasonic Marketing Europe GmbH

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